

SYNCHRONOUS REPLICATION FOR SYSTEM AND DATA SECURITY

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ABSTRACT OF THE DISCLOSURE

A method, system, and computer-readable medium for maintaining up-to-date, consistent backup copies of primary data that are immune to corruption even when security of the primary data is breached. Independent security domains are established for primary and secondary data, such that access to each security domain must be obtained independently of access to the other security domains. For example, a host computer system having access to data storage in the primary security domain does not have access to data storage in the secondary security domain, and vice versa. Changes to primary data are synchronously replicated over a tightly controlled replication link from primary data storage in the primary security domain to secondary data storage in the secondary security domain. A change to the data is completed in the primary security domain when an acknowledgement is received that the change to the data has been stored in secondary data storage.